

CITY OF ALBUQUERQUE



July 31, 2017

David Soule, PE
Rio Grande Engineering
1606 Central SE Suite 201
Albuquerque, NM 87106

**Re: Lot 5 Block 3 Volcano Cliffs SAD 228
6320 Camino Alto
Request Permanent C.O. – Not Accepted
Engineer's Stamp dated: 1-31-17 (D10D003R5)
Certification dated: None**

Dear Mr. Soule,

Based on the Certification received 7/26/2017, the site cannot be accepted for release of Certificate of Occupancy by Hydrology until the following comment is addressed.

- Provide the language for the Certificate of Occupancy with your signature and date on the plan dated 1/31/17.

If you have any questions, please contact me at 924-3695 or Rudy Rael at 924-3977.

Sincerely,

James D. Hughes, P.E.
Principal Engineer, Hydrology
Planning Department

RR/JH
C: File



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: _____ **Building Permit #:** _____ **City Drainage #:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: _____
City Address: _____

Engineering Firm: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Owner: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Architect: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Other Contact: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Check all that Apply:

DEPARTMENT:

- HYDROLOGY/ DRAINAGE
- TRAFFIC/ TRANSPORTATION
- MS4/ EROSION & SEDIMENT CONTROL

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY
- PRELIMINARY PLAT APPROVAL
- SITE PLAN FOR SUB'D APPROVAL
- SITE PLAN FOR BLDG. PERMIT APPROVAL
- FINAL PLAT APPROVAL
- SIA/ RELEASE OF FINANCIAL GUARANTEE
- FOUNDATION PERMIT APPROVAL
- GRADING PERMIT APPROVAL
- SO-19 APPROVAL
- PAVING PERMIT APPROVAL
- GRADING/ PAD CERTIFICATION
- WORK ORDER APPROVAL
- CLOMR/LOMR
- PRE-DESIGN MEETING
- OTHER (SPECIFY) _____

TYPE OF SUBMITTAL:

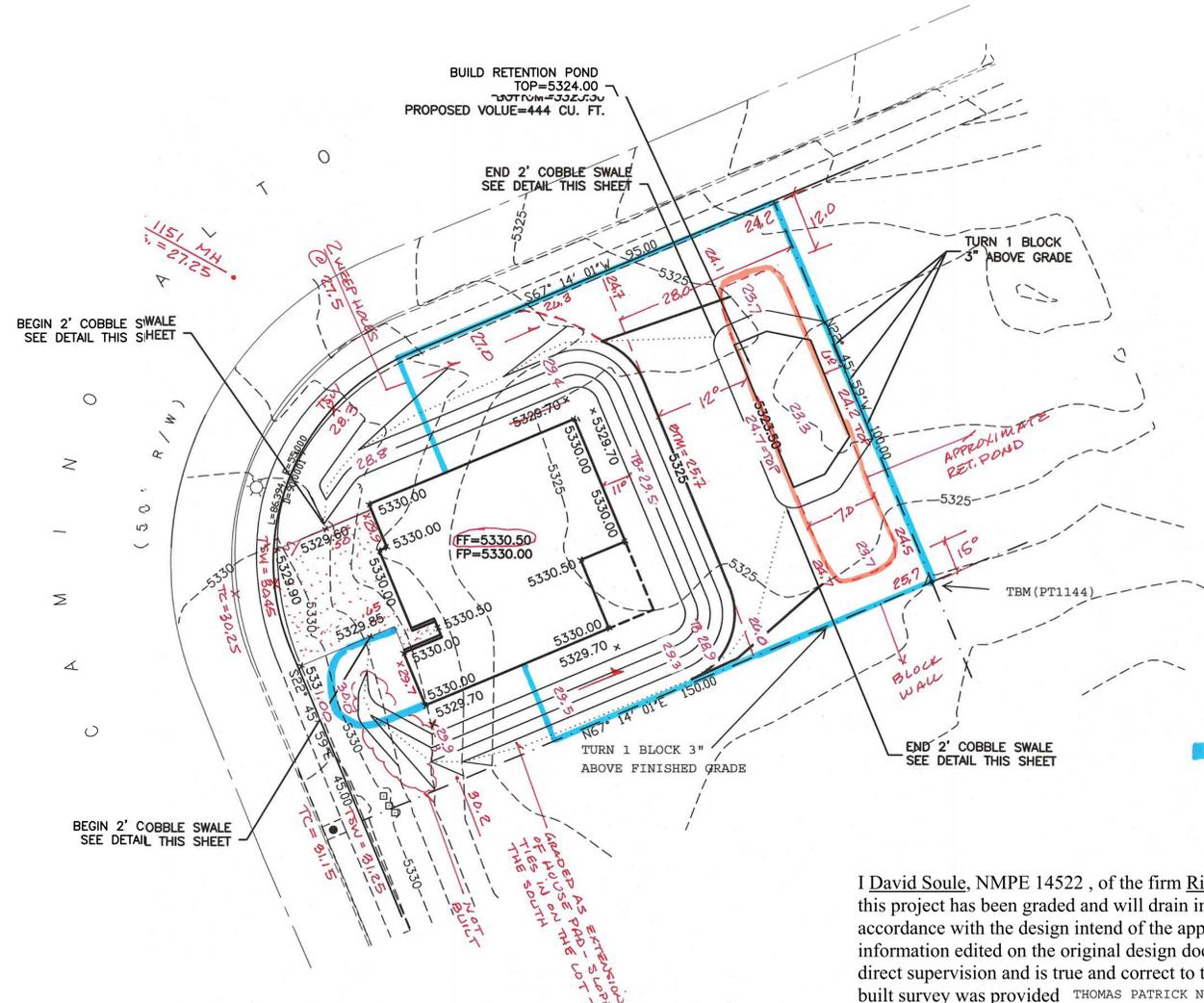
- ENGINEER/ ARCHITECT CERTIFICATION
- CONCEPTUAL G & D PLAN
- GRADING PLAN
- DRAINAGE MASTER PLAN
- DRAINAGE REPORT
- CLOMR/LOMR
- TRAFFIC CIRCULATION LAYOUT (TCL)
- TRAFFIC IMPACT STUDY (TIS)
- EROSION & SEDIMENT CONTROL PLAN (ESC)
- OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: Yes No

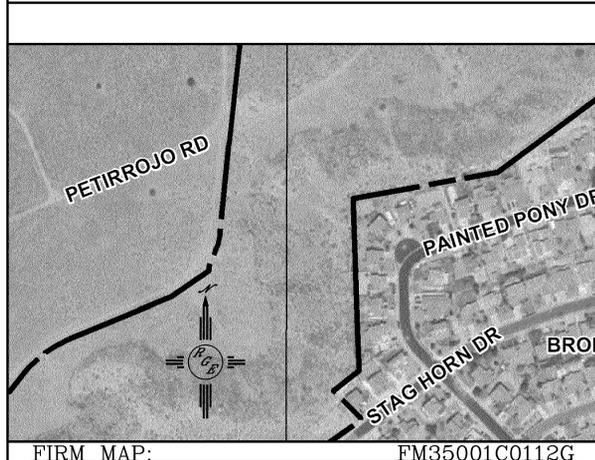
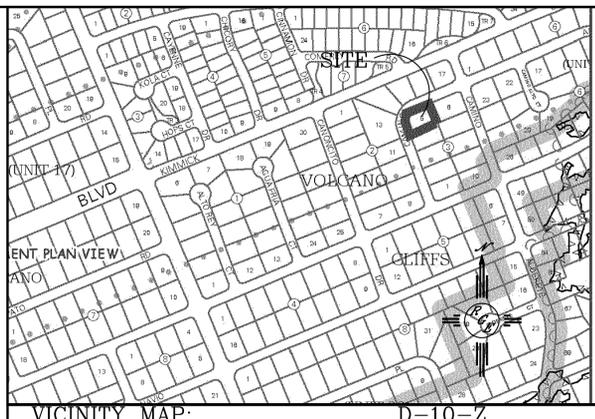
DATE SUBMITTED: _____ By: _____

COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____

CAUTION:
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.



Point #	Elevation	Northing	Easting	Description
1144	5326.10	1518201.43	1502211.29	SRBC 2495
1145	5325.28	1518035.49	1502200.92	SRBC ILLEG
1146	5329.65	1518198.58	1502206.24	CL SAS MH
1151	5327.27	1518271.74	1502054.48	CL SAS MH



LEGAL DESCRIPTION:
LOT 5 BLOCK 3, UNIT 22 VOLCANO CLIFFS SUBDIVISION

- NOTES:**
- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
 - ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
 - SURVEY PROVIDED BY ALDRICH LAND SURVEYING, BASED UPON NAVD 1988 DATUM.

I David Soule, NMPE 14522, of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 12/27/16. The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The as-built survey was provided THOMAS PATRICK NMPLS #12651. The certification is submitted in support of a request for **PERMANENT CERTIFICATE OF OCCUPANCY**. The record information presented heron is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Weighted E Method

Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		Weighted (ac-ft)	Volume (ac-ft)	Flow cfs
			%	(acres)	%	(acres)	%	(acres)	%	(acres)			
NATIVE ALLOWED	14237.00	0.327	80%	0.261	10%	0.033	10%	0.0327	0%	0.000	0.518	0.014	0.50
PROPOSED	14237.00	0.327	0%	0	10%	0.033	40%	0.1307	50%	0.163	1.448	0.039	1.16
total	14237.00	0.327	0%	0	32%	0.105	42%	0.1373	26%	0.085	1.142	0.031	0.98

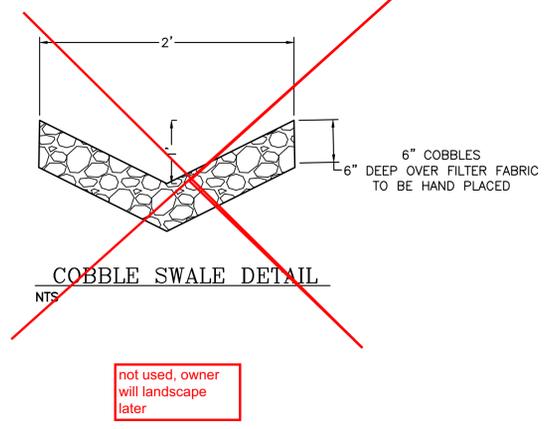
Equations:
Weighted E = Ea * Aa + Eb * Ab + Ec * Ac + Ed * Ad / (Total Area)

Volume = Weighted D * Total Area
Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

Where for 100-year, 6-hour storm - zone 1
Ea= 0.44 Qa= 1.29
Eb= 0.67 Qb= 2.03
Ec= 0.99 Qc= 2.87
Ed= 1.97 Qd= 4.37

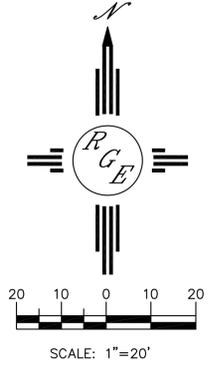
ONSITE Conditions
FIRST FLUSH WATER QUALITY VOL REQUIRED (CF) PROVIDED (CF)
WATER QUALITY 105 444

Narrative
This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent property per the master drainage plan. We are ponding the water harvest volume generated by the site we are allowing the upland flow to pass thru the site. This plan has a shallow water harvest pond in excess of the drainage regulations. This plan is in conformance to the masterplan



LEGEND

- - - - - EXISTING CONTOUR
- - - - - EXISTING INDEX CONTOUR
- - - - - PROPOSED CONTOUR
- - - - - PROPOSED INDEX CONTOUR
- - - - - SLOPE TIE
- + + + + + EXISTING SPOT ELEVATION
- + + + + + PROPOSED SPOT ELEVATION
- - - - - BOUNDARY
- - - - - CENTERLINE
- - - - - RIGHT-OF-WAY
- = = = = = EXISTING CURB AND GUTTER



ENGINEER'S SEAL	6320 CAMINO ALTO	DRAWN BY WCVJ
	GRADING AND DRAINAGE PLAN	DATE 12-27-16
		21647-LAYOUT-12-27-16
12/27/16		SHEET #
DAVID SOULE P.E. #14522		JOB # 21647